

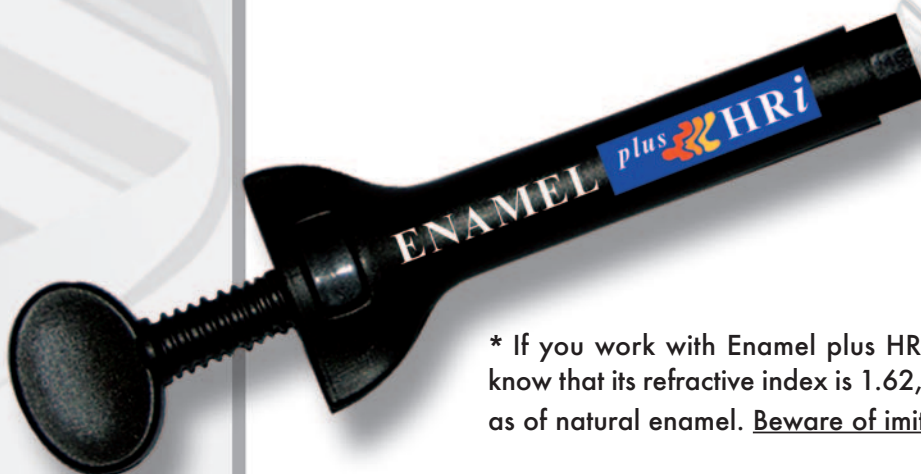
HRi

natural enamel  
**C L O N E D**  
in composite

a true dental innovation

1.62\*

NATURAL TECHNOLOGY

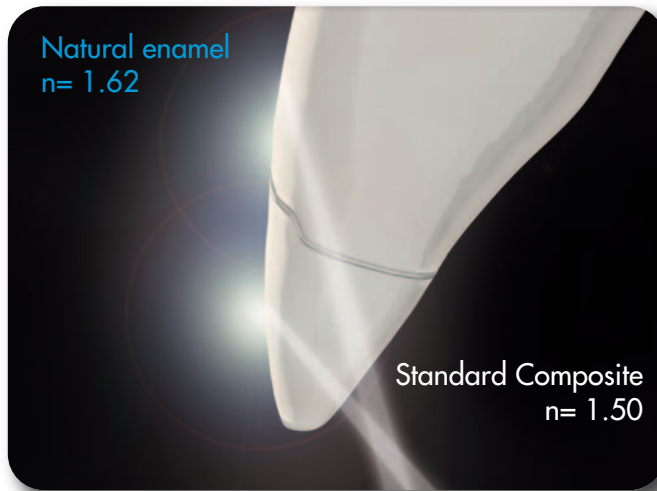


\* If you work with Enamel plus HRi you will know that its refractive index is 1.62, the same as of natural enamel. Beware of imitations!

estetica  
**M**  
GRUPPO  
MICERIUM

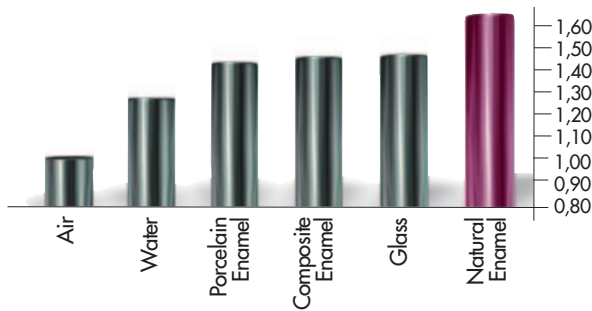
# THE PROBLEM

## The refraction of composite & ceramic materials



"Glass Effect" lowers the value of the restoration with a gray halo on the margin (dark line)

### RELATIVE REFRACTIVE INDEX OF LIGHT (n)



The relative refractive indexes of common materials measured at a temperature of 20°C and with a 589 nm wavelength light indicates the deviation of the light that crosses a translucent area (Vanini Mangani Klimovskaia "Conservative Restoration of Anterior Teeth" Acme 2005)

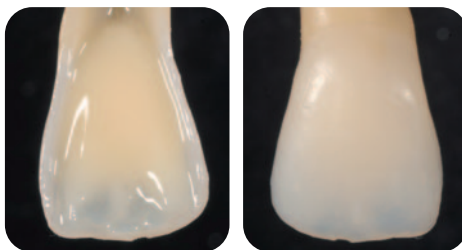
### HRi: THE TRUE ENAMEL



HRi Enamel veneers showing natural effects

Different thicknesses of Enamel plus HRi change in shade in the same manner as Natural Enamel would in the same thickness.

Thickness of 0,6 mm allows ideal translucency



Application of dentine and opalescent OBN



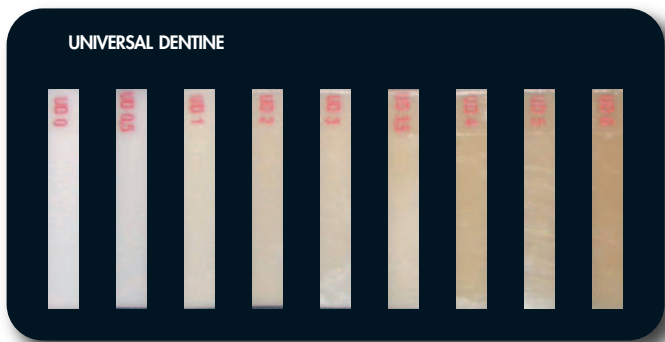
**UE1** low value (amber)

**UE2** medium value

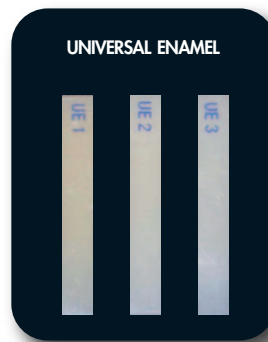
**UE3** high value (for children or bleached teeth)

## Characteristics & advantages

### TECHNOLOGICAL & OPERATING ADVANTAGES



- **New dentine** with fluorescence and increased translucency calibrated to natural dentine
- **Ultra-light Dentine:** UD0 and UD 0,5 for bleached teeth



- **Invisible margin thanks to high refraction index** no "glass effect" lowering the value of the restoration



- **Characterization and intensive effect** created by intensive enamel (IM, IWS, IW) and opalescent amber (OA)
- **Opalescent effect blue and amber created from HRi Enamel** (Transparency 30% until 0,8 mm); Opalescent shade OBN is used when increase of opalescent effect is required

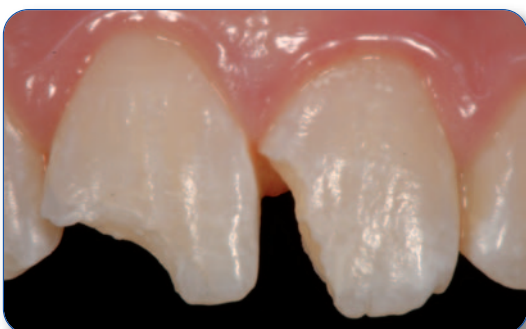
### JUST ENAMEL TECHNIQUE USING ENAMEL PLUS HRi UNIVERSAL ENAMEL (ALSO FOR DIASTEMA)



### BASIC TECHNIQUE USING ENAMEL PLUS HRi, DENTINE AND ENAMEL



### MASTER TECHNIQUE ADDITIONAL SHADES FOR OPALESCENCE, INTENSIVE AND CHARACTERIZATION



## The product

### ENAMEL PLUS HRI KIT



## CHR15

**COMPLETE KIT  
ENAMEL PLUS HRI  
FOR MASTER TECHNIQUE**  
including 15 syringes 5 g  
with syringe holder

**9 dentine:**  
UD0, UD0,5, UD1 (A1),  
UD2 (A2), UD3 (A3),  
UD3,5 (A3,5), UD4 (A4),  
UD5, UD6

**3 universal enamel:**  
UE1, UE2, UE3

**3 intensive enamel:**  
white (IW), white spot  
(IWS), milky (IM)

**2 opalescent enamel:**  
blue (OBN), amber (OA)  
available separately  
(included in special offers)



## CHR11

**INTRO KIT  
ENAMEL PLUS HRI  
FOR MASTER TECHNIQUE**  
including 11 syringes 5 g  
with syringe holder

**7 dentine:**  
UD0, UD1 (A1), UD2 (A2),  
UD3 (A3), UD4 (A4),  
UD5, UD6

**3 universal enamel:**  
UE1, UE2, UE3

**1 intensive enamel:**  
intensive white spot (IWS)



## CHR6\*

**TRIAL KIT  
ENAMEL PLUS HRI  
FOR BASIC TECHNIQUE**  
including 6 syringes 2,5 g  
with syringe holder

**4 dentine:**  
UD1 (A1), UD2 (A2),  
UD3 (A3), UD4 (A4)

**2 universal enamel:**  
UE2, UE3

**\*CHR6B**  
UE1 instead of UE3



## TENDER1H

**INTRODUCTORY KIT  
ENAMEL PLUS HRI  
FOR LABORATORY**  
with syringe holder, including:

**7 Tender 2,5g:** T2, T3, T4, T5,  
MW, MO, MY

**4 Dentine HRI 2,5g:** UD2 (A2),  
UD3 (A3), UD4 (A4), UD5

**1 Universal enamel HRI 2,5g:**  
UE2

**3 Bio Function enamel 2,5g:**  
BF1, BF2, BF3

**1 Intensive enamel 2,5g:**  
Intensive White Spot (IWS)

**1 Opalescent enamel 2,5g:** OBN

**2 Paste opaque 3g:** light, clear

**1 Tender bond metal primer 2,5ml**

**2 Temp Chips retentions 10g:**  
standard, micro

**1 Temp Chips adhesive 20ml**



All kits available also in tips

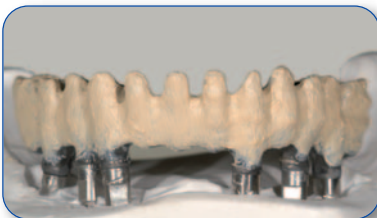
### POSTERIOR DIRECT & INDIRECT



### PROSTHESIS ON IMPLANTS



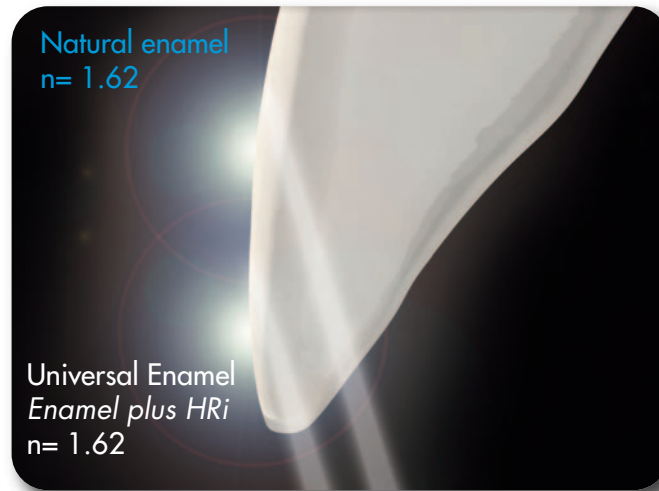
### PRESSING TECHNIQUE WITH TENDER FLASK Laboratory case by Mr. D. Rondoni



# THE SOLUTION

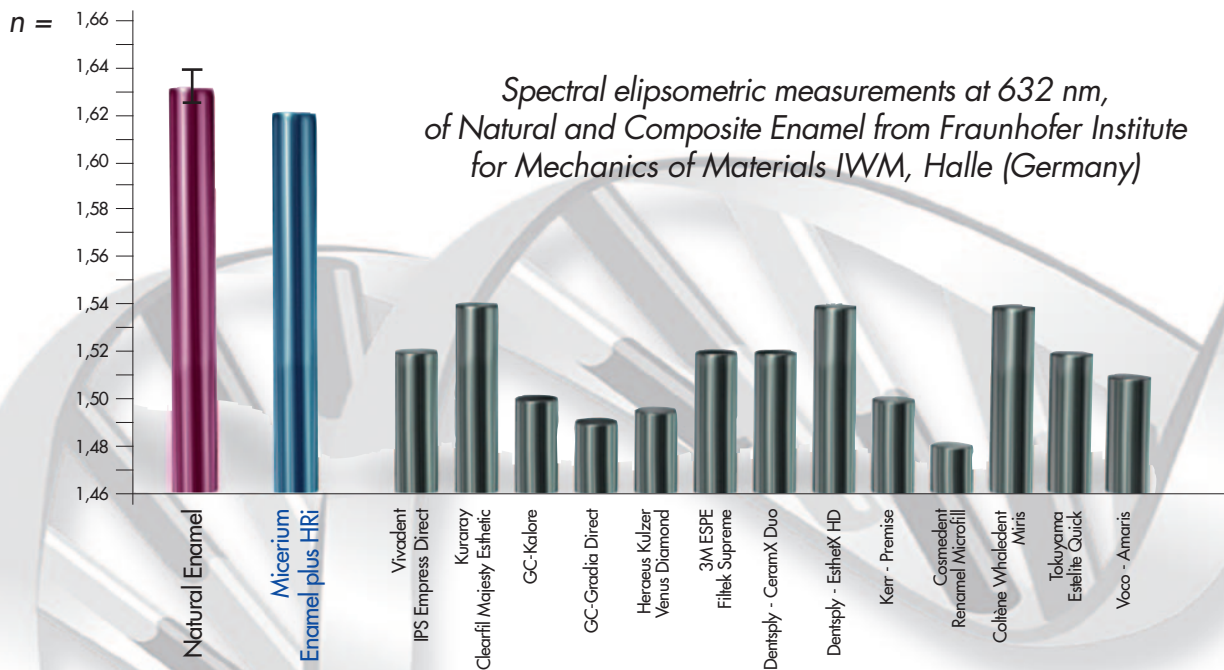
# ENAMEL<sup>plus</sup> HRi

... the same refractive index as natural enamel

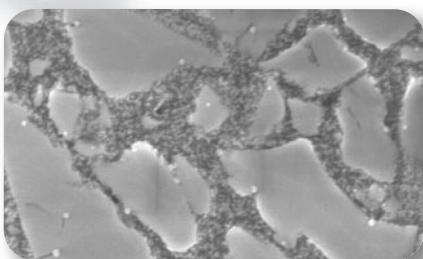


Invisible margins, in HRi restoration, using the same thickness of the natural enamel

## RELATIVE REFRACTIVE INDEX



## NANOTECHNOLOGY REM



Enamel plus HRi doesn't contain TEGDMA and HEMA!

- **Composition FILLING (80% WEIGHT - 63% VOLUME)**
  - Surface treated zirconium oxide with high refractive index (12% in weight)
  - New type of filling glass with high refractive index (68% in weight)

### • Ideal physical data

for every type of direct or indirect restoration

- Vickers Hardness 700 MPa
- Modulus of elasticity 14.500 MPa
- Flexural Strength 170 MPa
- Compressive strength 450 MPa
- High radiopacity 600% Al



The HRi project has been devised from Dr. L.Vanini and developed in collaboration with Dr. T. Niem (Patent Pending)

This project (HA-Project-Nr: 130/07-01) has received special funding from the State of Hessen, co-financed by funds of the European Union (European Social Fund - ESF) for scientific innovation and advancement.



**ENAMEL PLUS SHINY FINISHING SYSTEM**



**Finishing and polishing** with diamond rubber point, diamond paste 3µ and 1µ with brushes, aluminium oxide with felt.

**ENAMEL PLUS HRi FLOW<sup>HF</sup> - ENA CEM<sup>HF</sup>**



**New highly filled fluid composite** medium viscosity, available dual as **Ena Cem<sup>HF</sup>** (for multipurpose luting & core build up) and light curing as **Flow<sup>HF</sup> HRi** (as liner). High physical properties and without bubbles.



**ENA POST 10% & 2% GLASS FIBER POST**



Aesthetic: fluorescent and dentine colour  
 Functional: same elasticity of dentine  
 Perfectly integrated with the tooth, cement and restorative material: the only post with silanized fibers embedded in the same resin of restorative material (Enamel plus HRi)

**ENAMEL PLUS TEMP**



**Temporary Resin for aesthetic temporary crown and bridge**  
 The opacity and fluorescence of the dentine bodies, combined with the natural translucency of the enamel allows Enamel plus Temp a harmonious relationship which perfectly matches the relationship of these layers within the natural tooth.

**TENDER PINK**



**Pink Composite** is the most innovative system to reproduce the gingival tissue in dental office and laboratory.  
**4 shades:** Dark, Light, Orange, Transparent  
**1 Flow Pink** and **1 Opaque Pink**  
**3 Stain Flow:** Blue, White and Red

**ENA HEAT**



**Composite Heating conditioner**  
 ENA HEAT 110-240V  
 50-60 Hz, 500mA  
 Allows to use composite at the ideal temperature of 39°C for modellation and 55°C for cementation

